

| <b>CLAIMS ONLY</b> |          |      |                        |      |                        |      | SERIAL NO.<br><b>1039514</b> | FILING DATE |      |      |      |      |      |
|--------------------|----------|------|------------------------|------|------------------------|------|------------------------------|-------------|------|------|------|------|------|
|                    |          |      |                        |      |                        |      | APPLICANT(S)                 |             |      |      |      |      |      |
| CLAIMS             |          |      |                        |      |                        |      |                              |             |      |      |      |      |      |
|                    | AS FILED |      | AFTER<br>1st AMENDMENT |      | AFTER<br>2nd AMENDMENT |      |                              | *           |      | *    |      | *    |      |
|                    | IND.     | DEP. | IND.                   | DEP. | IND.                   | DEP. |                              | IND.        | DEP. | IND. | DEP. | IND. | DEP. |
| 1                  |          |      |                        |      |                        |      | 51                           |             |      |      |      |      |      |
| 2                  |          |      |                        |      |                        |      | 52                           |             |      |      |      |      |      |
| 3                  |          |      |                        |      |                        |      | 53                           |             |      |      |      |      |      |
| 4                  |          |      |                        |      |                        |      | 54                           |             |      |      |      |      |      |
| 5                  |          |      |                        |      |                        |      | 55                           |             |      |      |      |      |      |
| 6                  |          |      |                        |      |                        |      | 56                           |             |      |      |      |      |      |
| 7                  |          |      |                        |      |                        |      | 57                           |             |      |      |      |      |      |
| 8                  |          |      |                        |      |                        |      | 58                           |             |      |      |      |      |      |
| 9                  |          |      |                        |      |                        |      | 59                           |             |      |      |      |      |      |
| 10                 |          |      |                        |      |                        |      | 60                           |             |      |      |      |      |      |
| 11                 |          |      |                        |      |                        |      | 61                           |             |      |      |      |      |      |
| 12                 |          |      |                        |      |                        |      | 62                           |             |      |      |      |      |      |
| 13                 |          |      |                        |      |                        |      | 63                           |             |      |      |      |      |      |
| 14                 |          |      |                        |      |                        |      | 64                           |             |      |      |      |      |      |
| 15                 |          |      |                        |      |                        |      | 65                           |             |      |      |      |      |      |
| 16                 |          |      |                        |      |                        |      | 66                           |             |      |      |      |      |      |
| 17                 |          |      |                        |      |                        |      | 67                           |             |      |      |      |      |      |
| 18                 |          |      |                        |      |                        |      | 68                           |             |      |      |      |      |      |
| 19                 |          |      |                        |      |                        |      | 69                           |             |      |      |      |      |      |
| 20                 |          |      |                        |      |                        |      | 70                           |             |      |      |      |      |      |
| 21                 |          |      |                        |      |                        |      | 71                           |             |      |      |      |      |      |
| 22                 |          |      |                        |      |                        |      | 72                           |             |      |      |      |      |      |
| 23                 |          |      |                        |      |                        |      | 73                           |             |      |      |      |      |      |
| 24                 |          |      |                        |      |                        |      | 74                           |             |      |      |      |      |      |
| 25                 |          |      |                        |      |                        |      | 75                           |             |      |      |      |      |      |
| 26                 |          |      |                        |      |                        |      | 76                           |             |      |      |      |      |      |
| 27                 |          |      |                        |      |                        |      | 77                           |             |      |      |      |      |      |
| 28                 |          |      |                        |      |                        |      | 78                           |             |      |      |      |      |      |
| 29                 |          |      |                        |      |                        |      | 79                           |             |      |      |      |      |      |
| 30                 |          |      |                        |      |                        |      | 80                           |             |      |      |      |      |      |
| 31                 |          |      |                        |      |                        |      | 81                           |             |      |      |      |      |      |
| 32                 |          |      |                        |      |                        |      | 82                           |             |      |      |      |      |      |
| 33                 |          |      |                        |      |                        |      | 83                           |             |      |      |      |      |      |
| 34                 |          |      |                        |      |                        |      | 84                           |             |      |      |      |      |      |
| 35                 |          |      |                        |      |                        |      | 85                           |             |      |      |      |      |      |
| 36                 |          |      |                        |      |                        |      | 86                           |             |      |      |      |      |      |
| 37                 |          |      |                        |      |                        |      | 87                           |             |      |      |      |      |      |
| 38                 |          |      |                        |      |                        |      | 88                           |             |      |      |      |      |      |
| 39                 |          |      |                        |      |                        |      | 89                           |             |      |      |      |      |      |
| 40                 |          |      |                        |      |                        |      | 90                           |             |      |      |      |      |      |
| 41                 |          |      |                        |      |                        |      | 91                           |             |      |      |      |      |      |
| 42                 |          |      |                        |      |                        |      | 92                           |             |      |      |      |      |      |
| 43                 |          |      |                        |      |                        |      | 93                           |             |      |      |      |      |      |
| 44                 |          |      |                        |      |                        |      | 94                           |             |      |      |      |      |      |
| 45                 |          |      |                        |      |                        |      | 95                           |             |      |      |      |      |      |
| 46                 |          |      |                        |      |                        |      | 96                           |             |      |      |      |      |      |
| 47                 |          |      |                        |      |                        |      | 97                           |             |      |      |      |      |      |
| 48                 |          |      |                        |      |                        |      | 98                           |             |      |      |      |      |      |
| 49                 |          |      |                        |      |                        |      | 99                           |             |      |      |      |      |      |
| 50                 |          |      |                        |      |                        |      | 100                          |             |      |      |      |      |      |
| TOTAL IND.         |          |      |                        |      |                        |      | TOTAL IND.                   |             |      |      |      |      |      |
| TOTAL DEP.         |          |      |                        |      |                        |      | TOTAL DEP.                   |             |      |      |      |      |      |
| TOTAL CLAIMS       |          |      |                        |      |                        |      | TOTAL CLAIMS                 |             |      |      |      |      |      |

\* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

| <b>CLAIMS ONLY</b> |          |      |                        |      |                        |      | SERIAL NO.   | FILING DATE |
|--------------------|----------|------|------------------------|------|------------------------|------|--------------|-------------|
|                    |          |      |                        |      |                        |      | APPLICANT(S) |             |
| <b>CLAIMS</b>      |          |      |                        |      |                        |      |              |             |
|                    | AS FILED |      | AFTER<br>1st AMENDMENT |      | AFTER<br>2nd AMENDMENT |      |              |             |
|                    | IND.     | DEP. | IND.                   | DEP. | IND.                   | DEP. |              |             |
| 1                  |          |      |                        |      |                        |      |              |             |
| 2                  |          |      |                        |      |                        |      |              |             |
| 3                  |          |      |                        |      |                        |      |              |             |
| 4                  |          |      |                        |      |                        |      |              |             |
| 5                  |          |      |                        |      |                        |      |              |             |
| 6                  |          |      |                        |      |                        |      |              |             |
| 7                  |          |      |                        |      |                        |      |              |             |
| 8                  |          |      |                        |      |                        |      |              |             |
| 9                  |          |      |                        |      |                        |      |              |             |
| 10                 |          |      |                        |      |                        |      |              |             |
| 11                 |          |      |                        |      |                        |      |              |             |
| 12                 |          |      |                        |      |                        |      |              |             |
| 13                 |          |      |                        |      |                        |      |              |             |
| 14                 |          |      |                        |      |                        |      |              |             |
| 15                 |          |      |                        |      |                        |      |              |             |
| 16                 |          |      |                        |      |                        |      |              |             |
| 17                 |          |      |                        |      |                        |      |              |             |
| 18                 |          |      |                        |      |                        |      |              |             |
| 19                 |          |      |                        |      |                        |      |              |             |
| 20                 |          |      |                        |      |                        |      |              |             |
| 21                 |          |      |                        |      |                        |      |              |             |
| 22                 |          |      |                        |      |                        |      |              |             |
| 23                 |          |      |                        |      |                        |      |              |             |
| 24                 |          |      |                        |      |                        |      |              |             |
| 25                 |          |      |                        |      |                        |      |              |             |
| 26                 |          |      |                        |      |                        |      |              |             |
| 27                 |          |      |                        |      |                        |      |              |             |
| 28                 |          |      |                        |      |                        |      |              |             |
| 29                 |          |      |                        |      |                        |      |              |             |
| 30                 |          |      |                        |      |                        |      |              |             |
| 31                 |          |      |                        |      |                        |      |              |             |
| 32                 |          |      |                        |      |                        |      |              |             |
| 33                 |          |      |                        |      |                        |      |              |             |
| 34                 |          |      |                        |      |                        |      |              |             |
| 35                 |          |      |                        |      |                        |      |              |             |
| 36                 |          |      |                        |      |                        |      |              |             |
| 37                 |          |      |                        |      |                        |      |              |             |
| 38                 |          |      |                        |      |                        |      |              |             |
| 39                 |          |      |                        |      |                        |      |              |             |
| 40                 |          |      |                        |      |                        |      |              |             |
| 41                 |          |      |                        |      |                        |      |              |             |
| 42                 |          |      |                        |      |                        |      |              |             |
| 43                 |          |      |                        |      |                        |      |              |             |
| 44                 |          |      |                        |      |                        |      |              |             |
| 45                 |          |      |                        |      |                        |      |              |             |
| 46                 |          |      |                        |      |                        |      |              |             |
| 47                 |          |      |                        |      |                        |      |              |             |
| 48                 |          |      |                        |      |                        |      |              |             |
| 49                 |          |      |                        |      |                        |      |              |             |
| 50                 |          |      |                        |      |                        |      |              |             |
| 51                 |          |      |                        |      |                        |      |              |             |
| 52                 |          |      |                        |      |                        |      |              |             |
| 53                 |          |      |                        |      |                        |      |              |             |
| 54                 |          |      |                        |      |                        |      |              |             |
| 55                 |          |      |                        |      |                        |      |              |             |
| 56                 |          |      |                        |      |                        |      |              |             |
| 57                 |          |      |                        |      |                        |      |              |             |
| 58                 |          |      |                        |      |                        |      |              |             |
| 59                 |          |      |                        |      |                        |      |              |             |
| 60                 |          |      |                        |      |                        |      |              |             |
| 61                 |          |      |                        |      |                        |      |              |             |
| 62                 |          |      |                        |      |                        |      |              |             |
| 63                 |          |      |                        |      |                        |      |              |             |
| 64                 |          |      |                        |      |                        |      |              |             |
| 65                 |          |      |                        |      |                        |      |              |             |
| 66                 |          |      |                        |      |                        |      |              |             |
| 67                 |          |      |                        |      |                        |      |              |             |
| 68                 |          |      |                        |      |                        |      |              |             |
| 69                 |          |      |                        |      |                        |      |              |             |
| 70                 |          |      |                        |      |                        |      |              |             |
| 71                 |          |      |                        |      |                        |      |              |             |
| 72                 |          |      |                        |      |                        |      |              |             |
| 73                 |          |      |                        |      |                        |      |              |             |
| 74                 |          |      |                        |      |                        |      |              |             |
| 75                 |          |      |                        |      |                        |      |              |             |
| 76                 |          |      |                        |      |                        |      |              |             |
| 77                 |          |      |                        |      |                        |      |              |             |
| 78                 |          |      |                        |      |                        |      |              |             |
| 79                 |          |      |                        |      |                        |      |              |             |
| 80                 |          |      |                        |      |                        |      |              |             |
| 81                 |          |      |                        |      |                        |      |              |             |
| 82                 |          |      |                        |      |                        |      |              |             |
| 83                 |          |      |                        |      |                        |      |              |             |
| 84                 |          |      |                        |      |                        |      |              |             |
| 85                 |          |      |                        |      |                        |      |              |             |
| 86                 |          |      |                        |      |                        |      |              |             |
| 87                 |          |      |                        |      |                        |      |              |             |
| 88                 |          |      |                        |      |                        |      |              |             |
| 89                 |          |      |                        |      |                        |      |              |             |
| 90                 |          |      |                        |      |                        |      |              |             |
| 91                 |          |      |                        |      |                        |      |              |             |
| 92                 |          |      |                        |      |                        |      |              |             |
| 93                 |          |      |                        |      |                        |      |              |             |
| 94                 |          |      |                        |      |                        |      |              |             |
| 95                 |          |      |                        |      |                        |      |              |             |
| 96                 |          |      |                        |      |                        |      |              |             |
| 97                 |          |      |                        |      |                        |      |              |             |
| 98                 |          |      |                        |      |                        |      |              |             |
| 99                 |          |      |                        |      |                        |      |              |             |
| 100                |          |      |                        |      |                        |      |              |             |
| TOTAL IND.         |          | ↓    |                        | ↓    |                        | ↓    |              |             |
| TOTAL DEP.         |          | ←    |                        | ←    |                        | ←    |              |             |
| TOTAL CLAIMS       |          |      |                        |      |                        |      |              |             |

\* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

\*U.S. GPO: 1998-443-593/89152